

Abstract

A detector circuit is to be used for measuring current by means of substantially
5 identically wound ring core transformers, in which magnetomotive forces are induced
by a main current. The magnetomotive forces are counteracted by magnetomotive
forces induced by a compensating current. Two of the ring core transformers (2, 3) are
magnetized in antiphase by means of a modulation signal. The detector circuit includes
optionally a synchronous rectifier for providing an adjusting signal for the
10 compensating current. According to the invention means are provided for compensating
for possible differences between the two ring core transformers for the modulation
signal. These means include a common winding surrounding the two ring cores (2, 3),
said common winding detecting a possible error signal used in a negative feedback loop
which automatically seeks to establish an equilibrium.